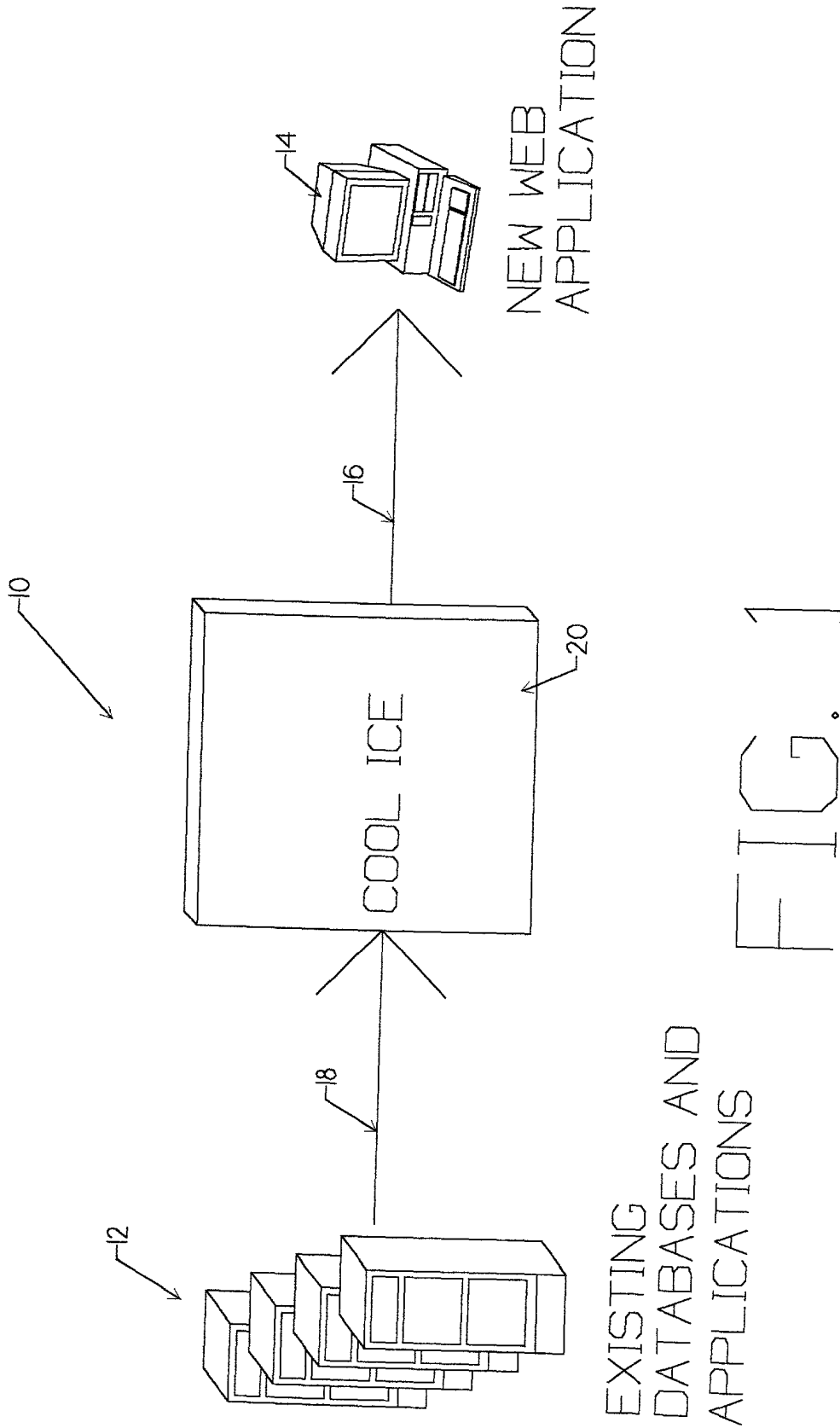


FIG. 1



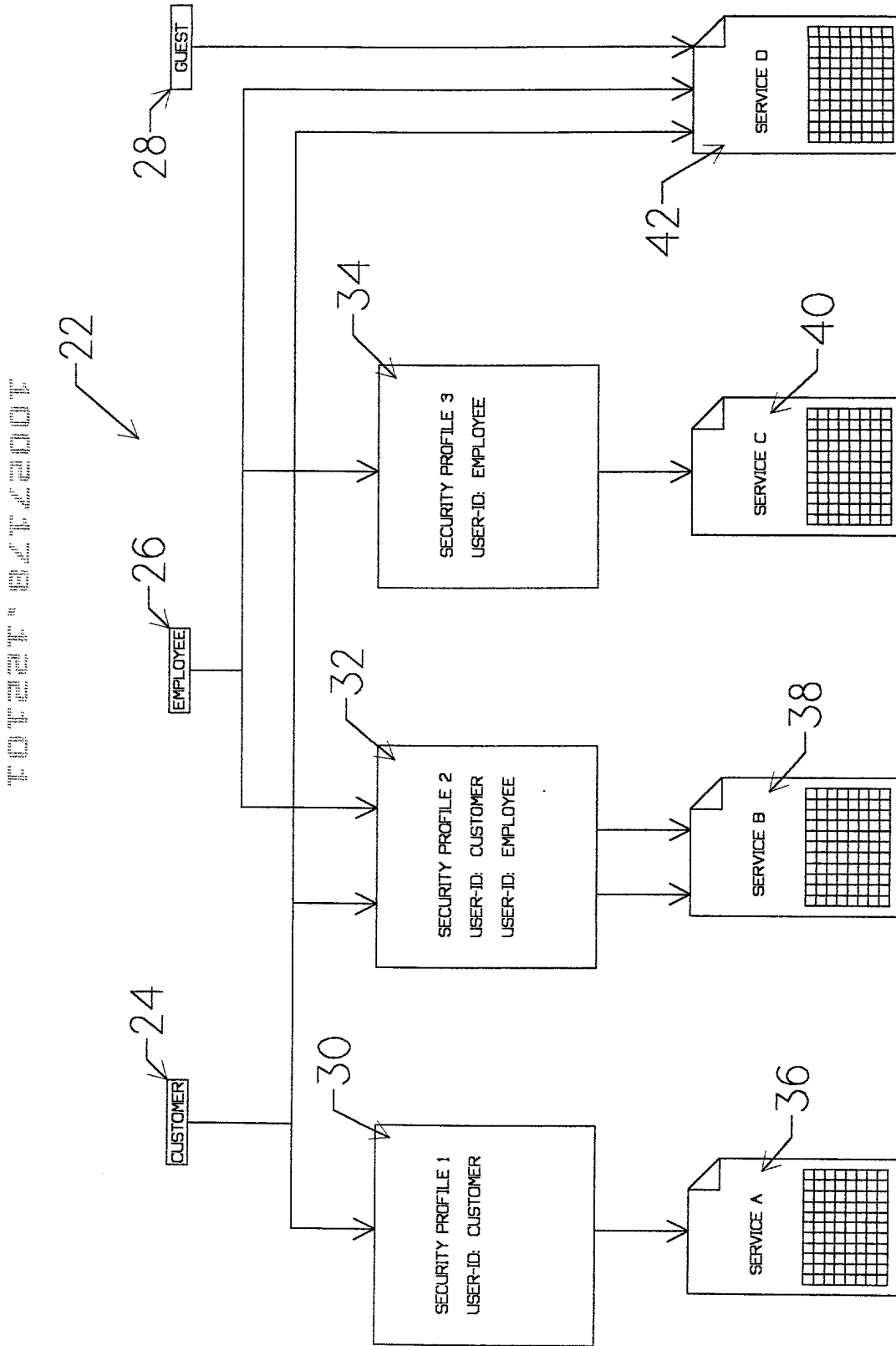


FIG. 2

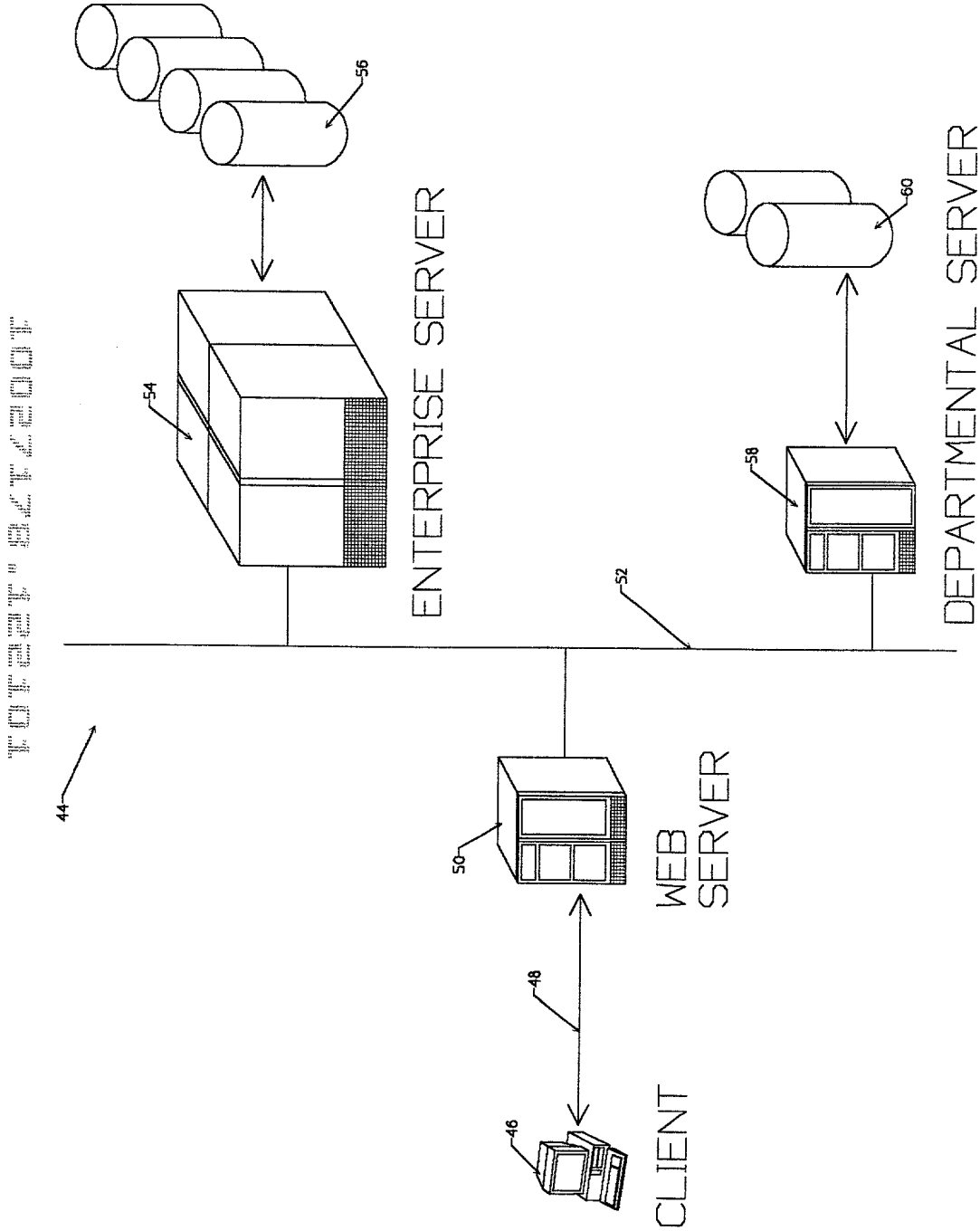


FIG. 3

FIG. 4

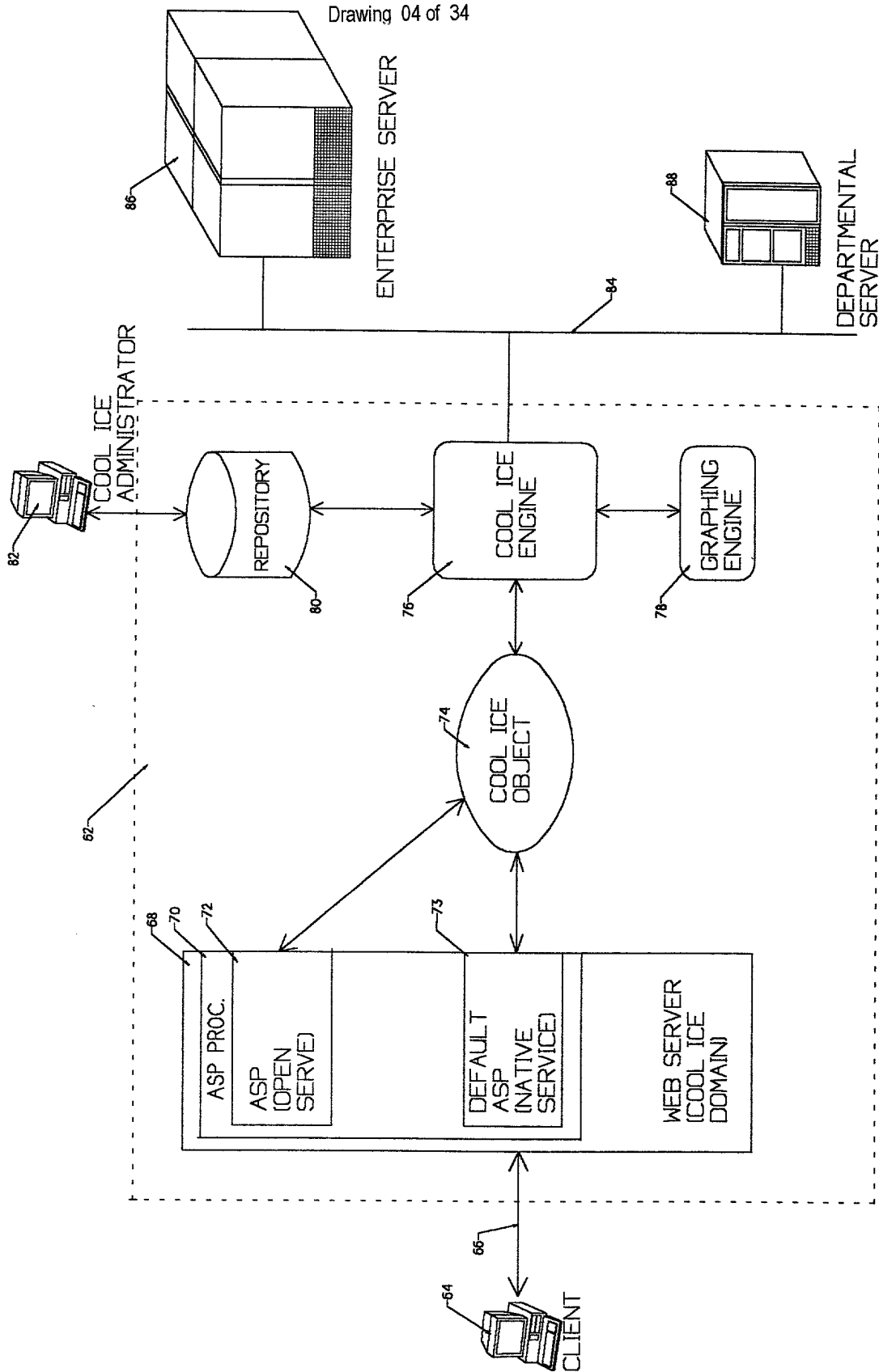


FIG. 4

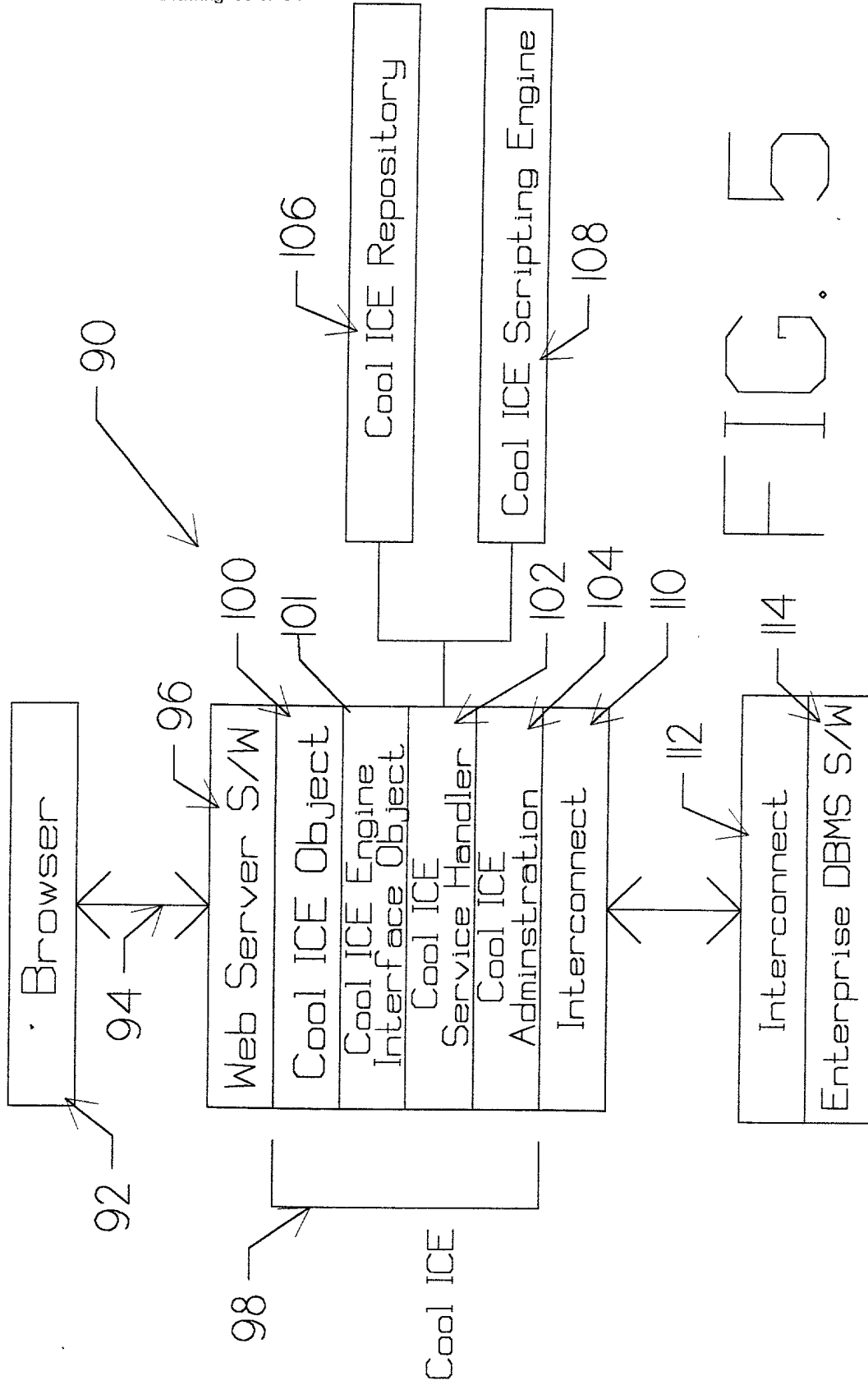


FIG. 5

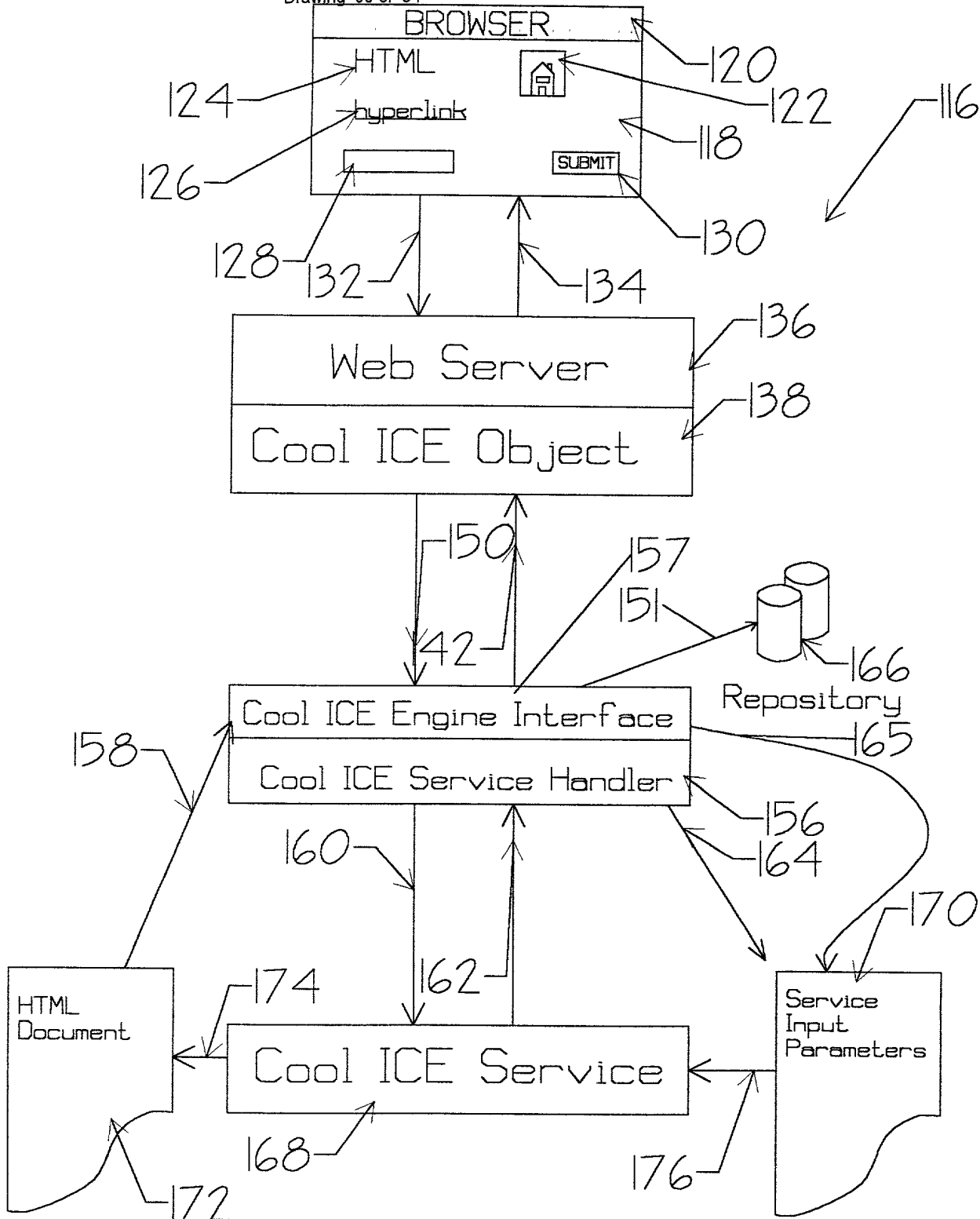


FIG. 6

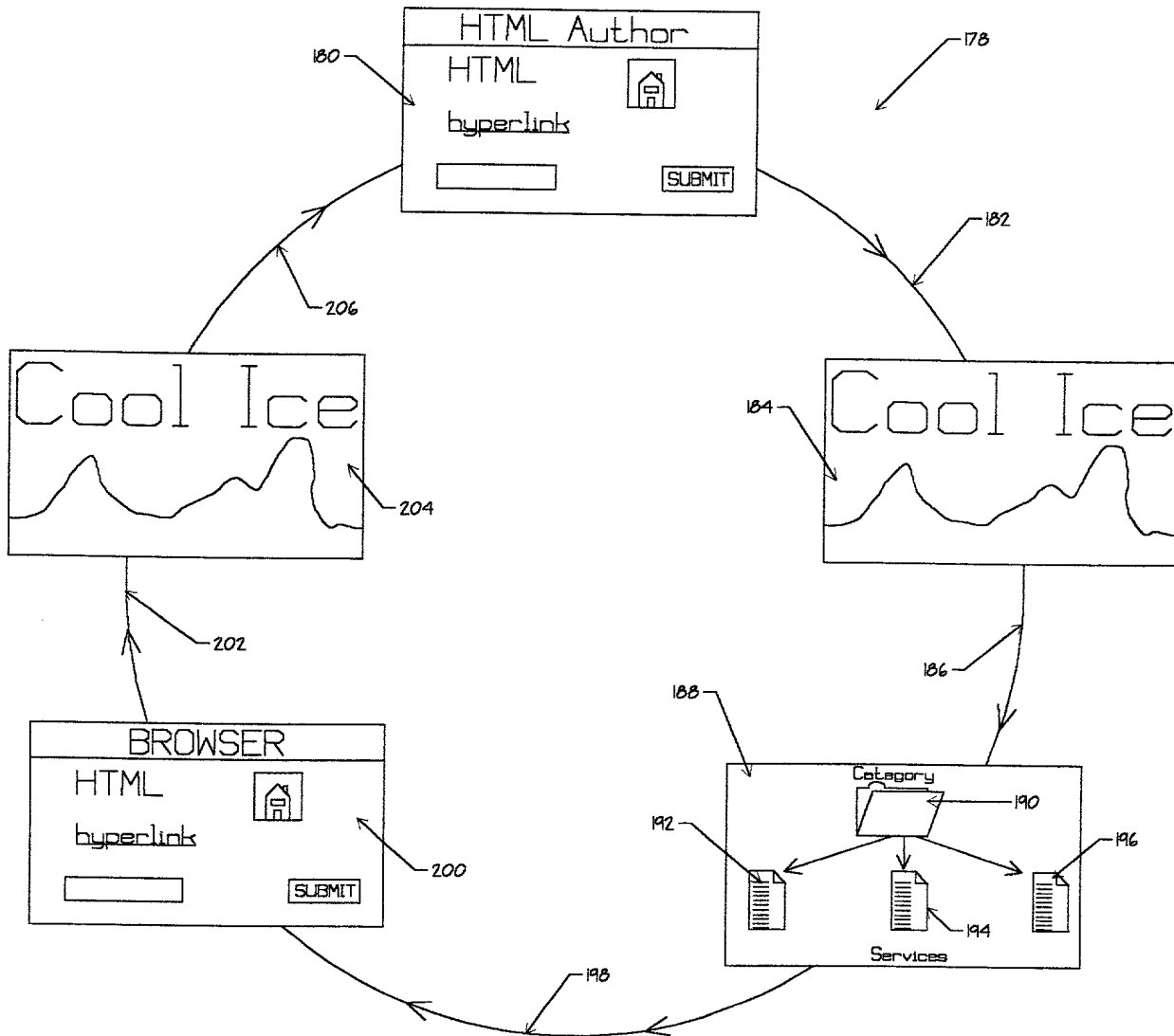


FIG. 7

FIG. 8

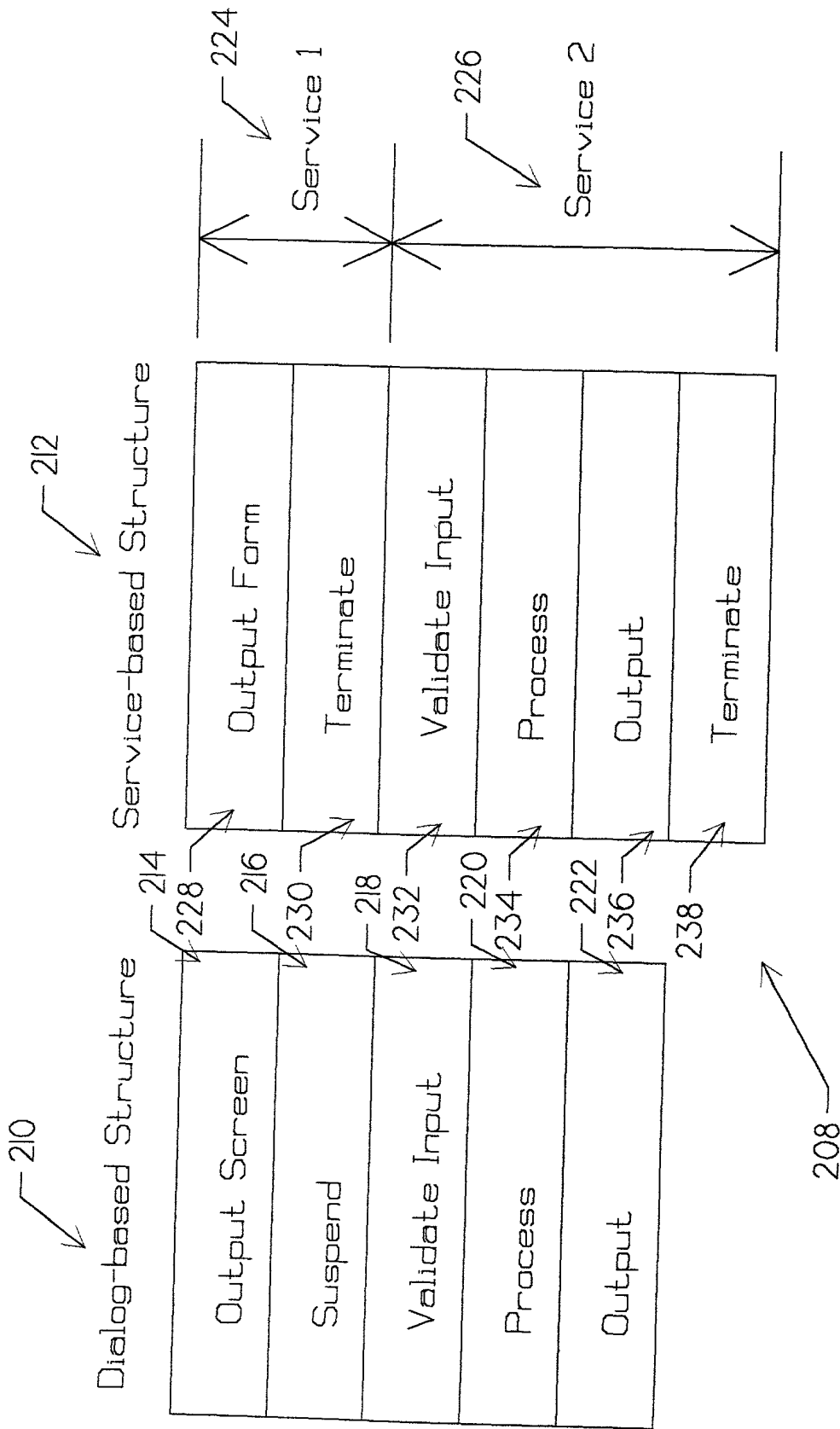


FIG. 8



FIG. 9

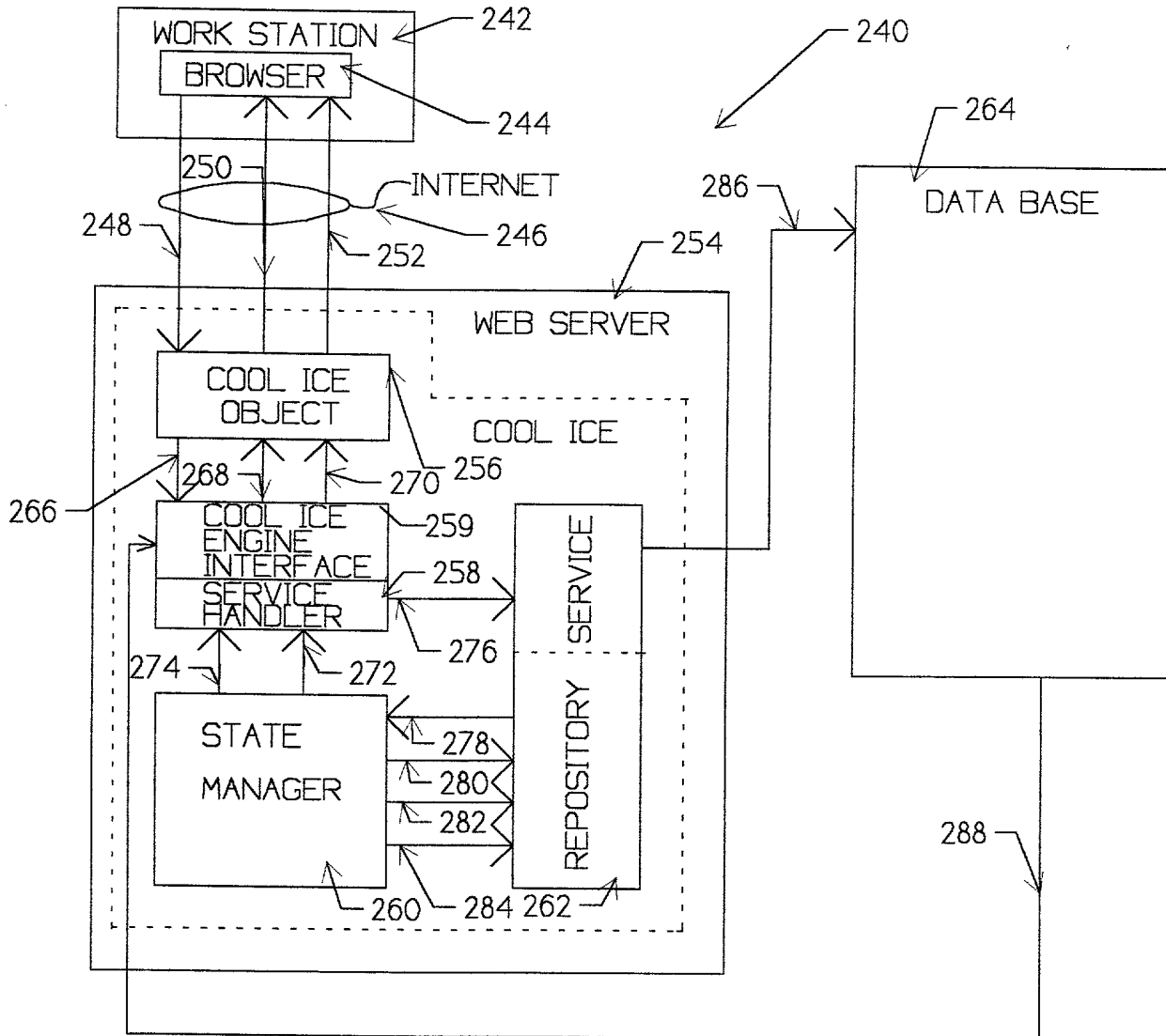


FIG. 9

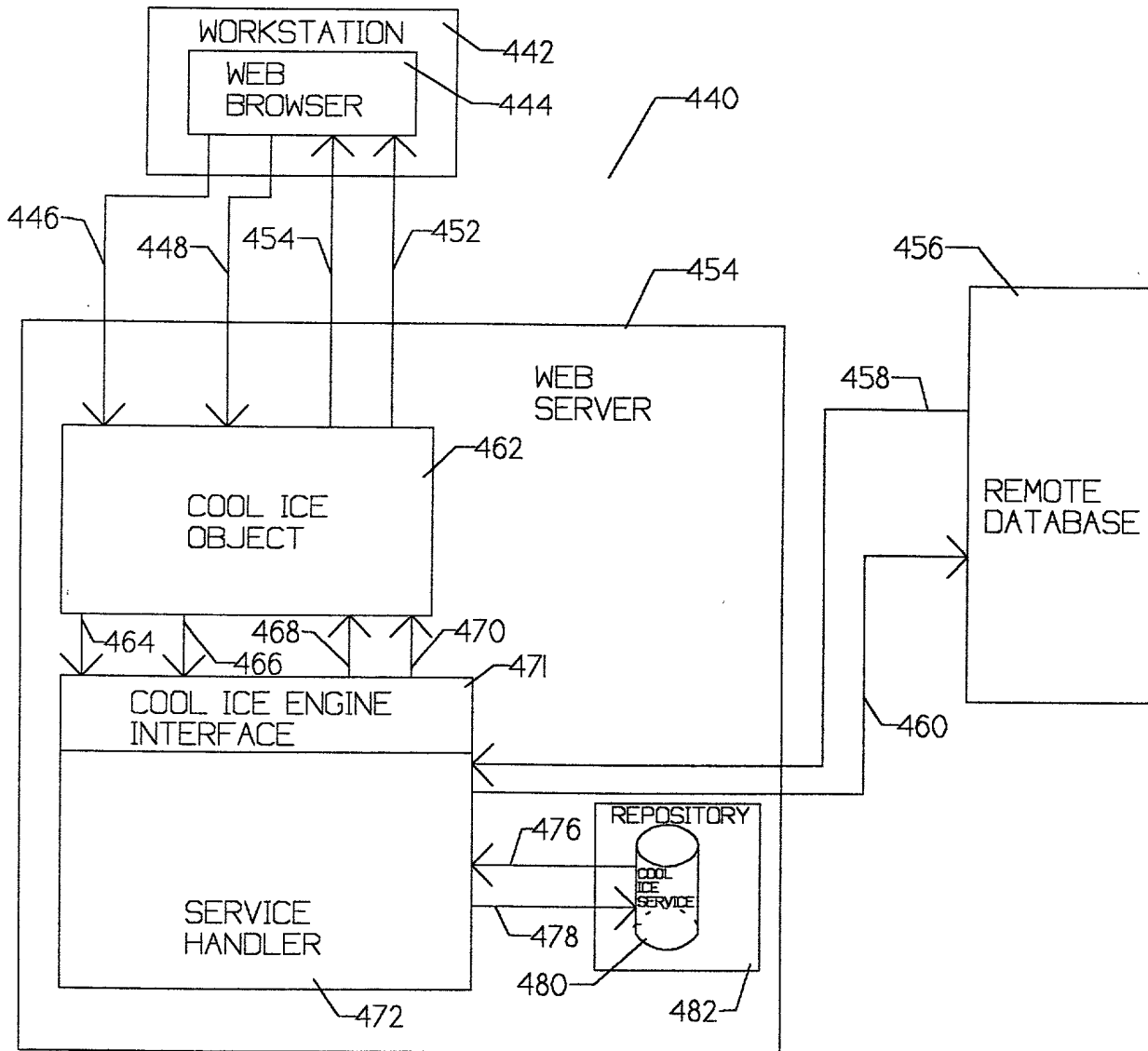


FIG. 10

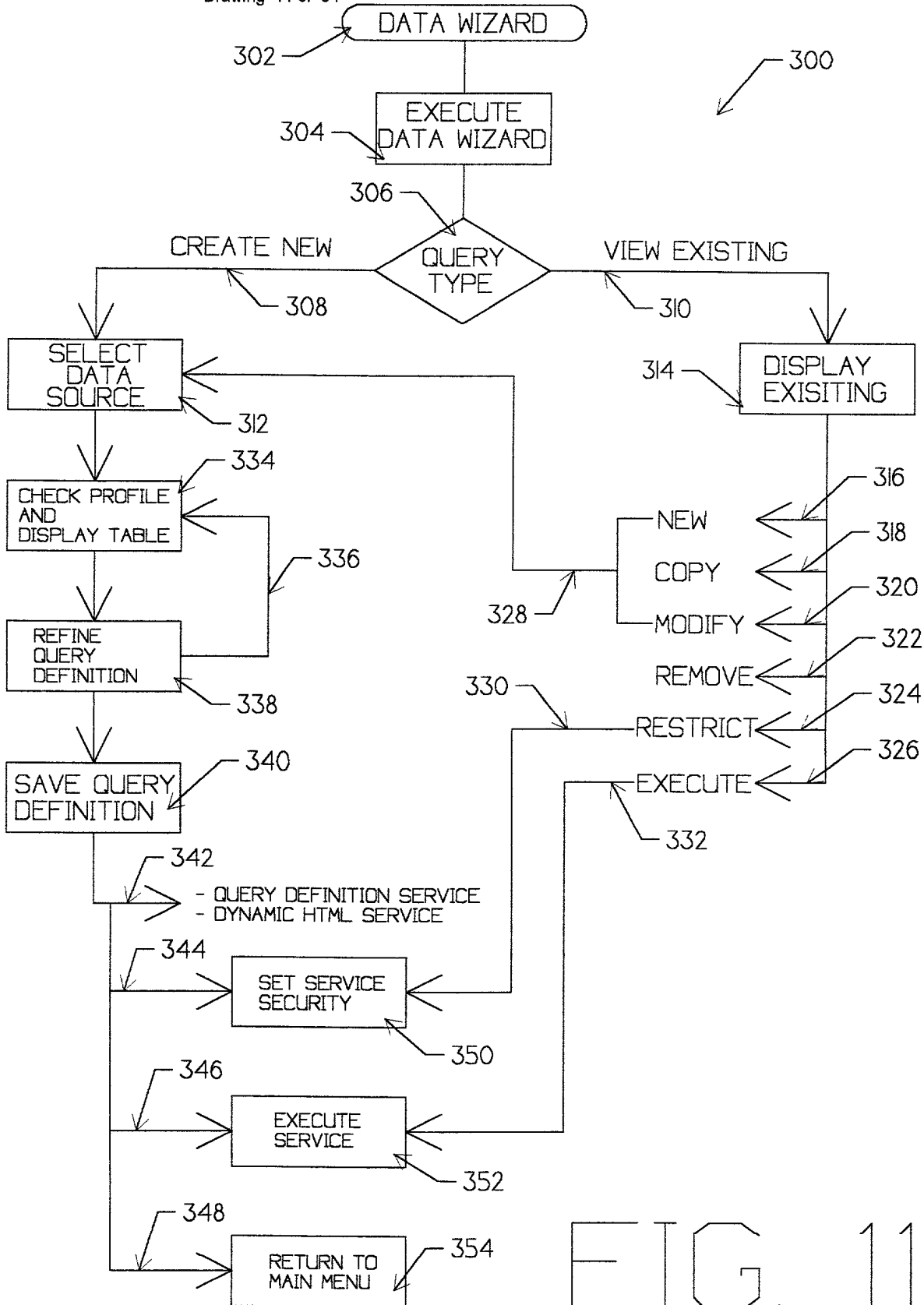


FIG. 11

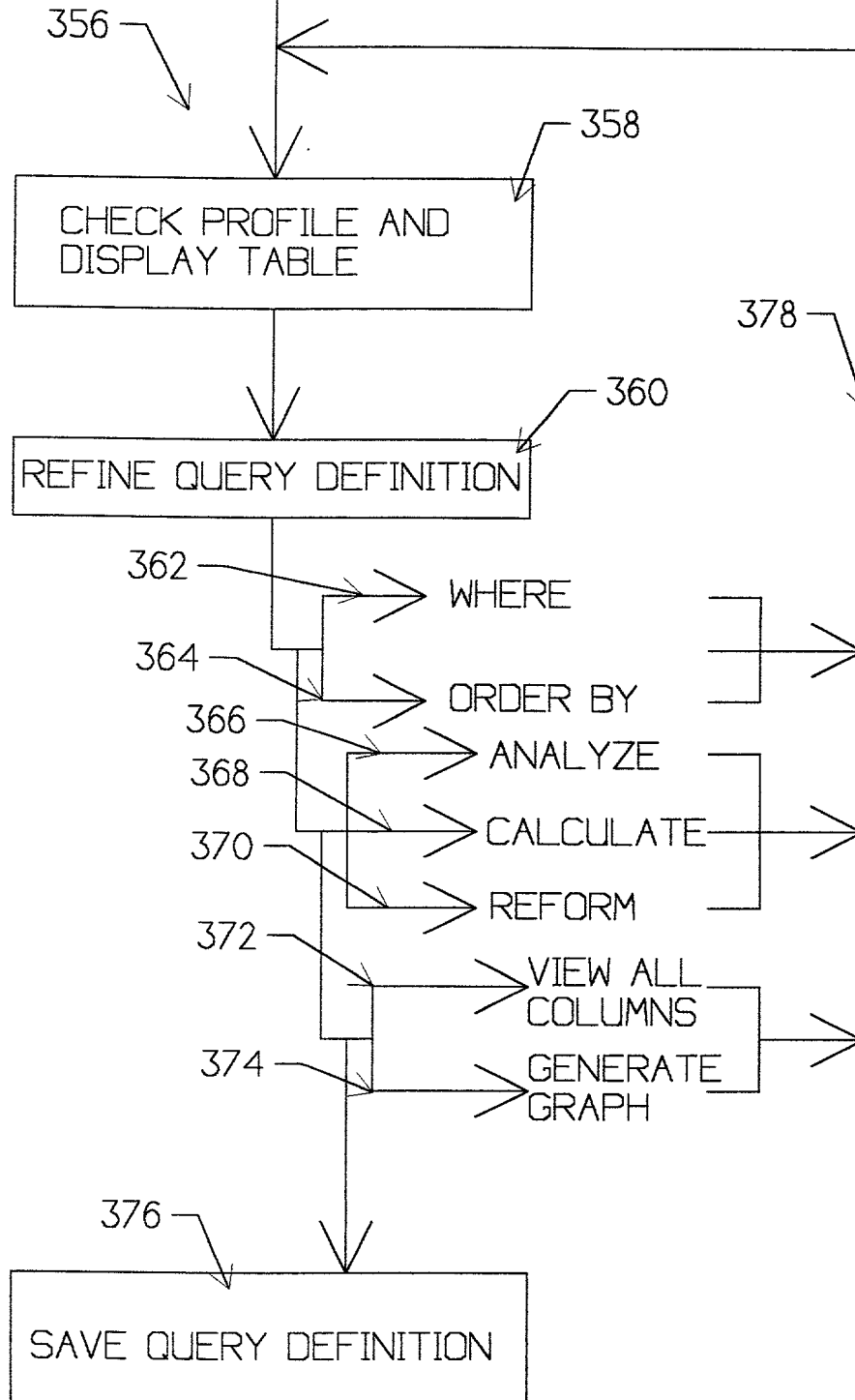


FIG. 12

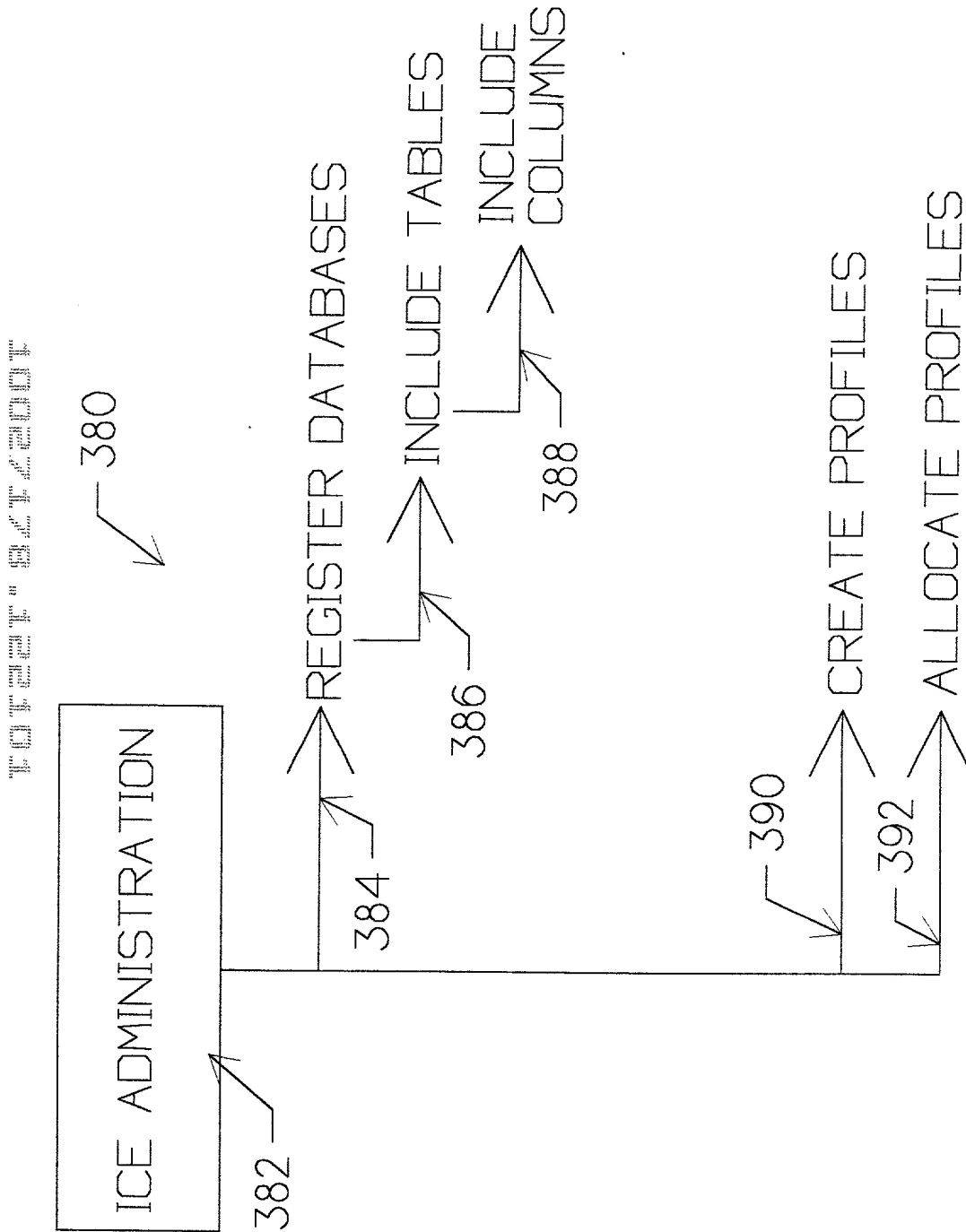


FIG. 13

FIG. 14

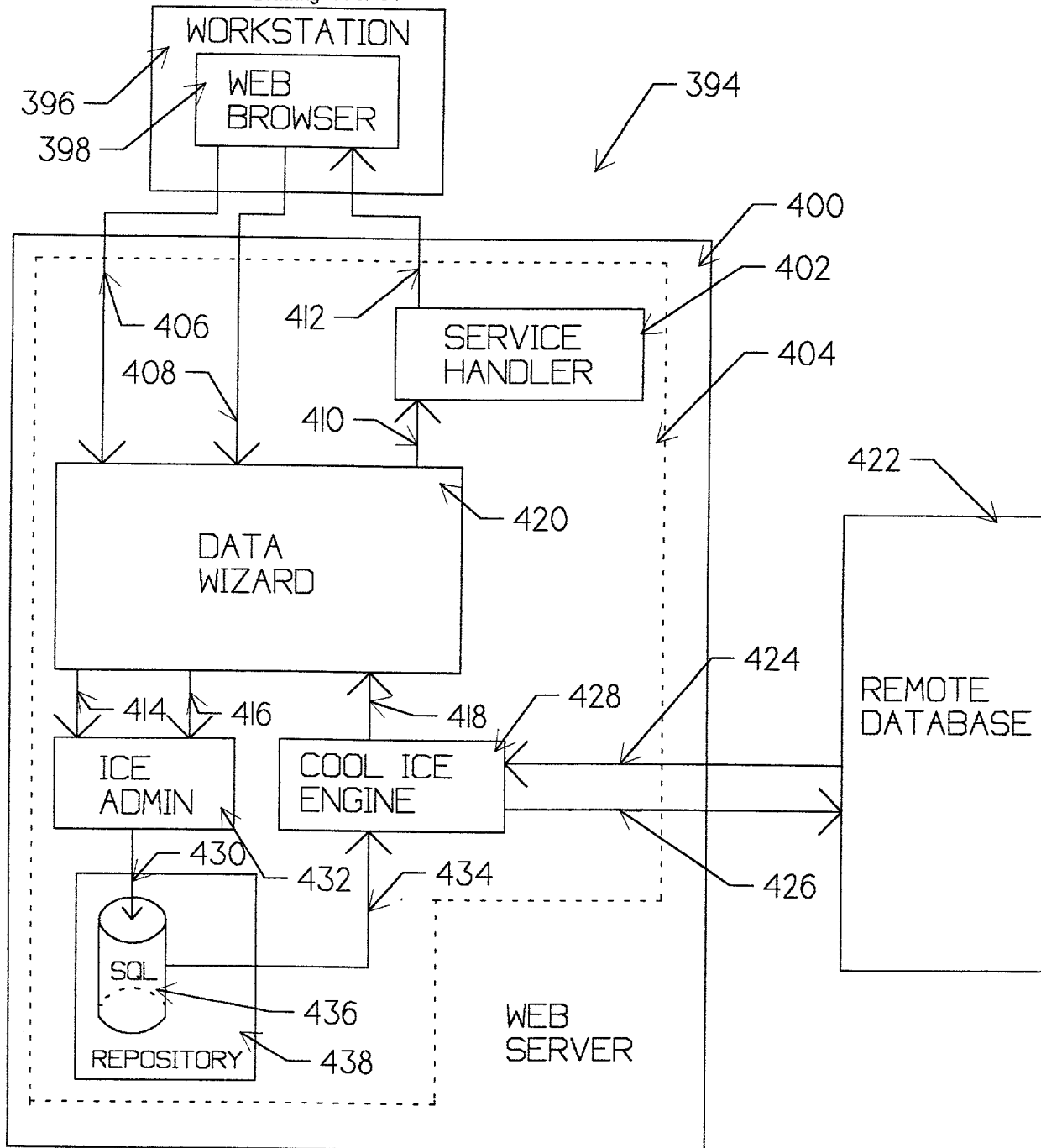
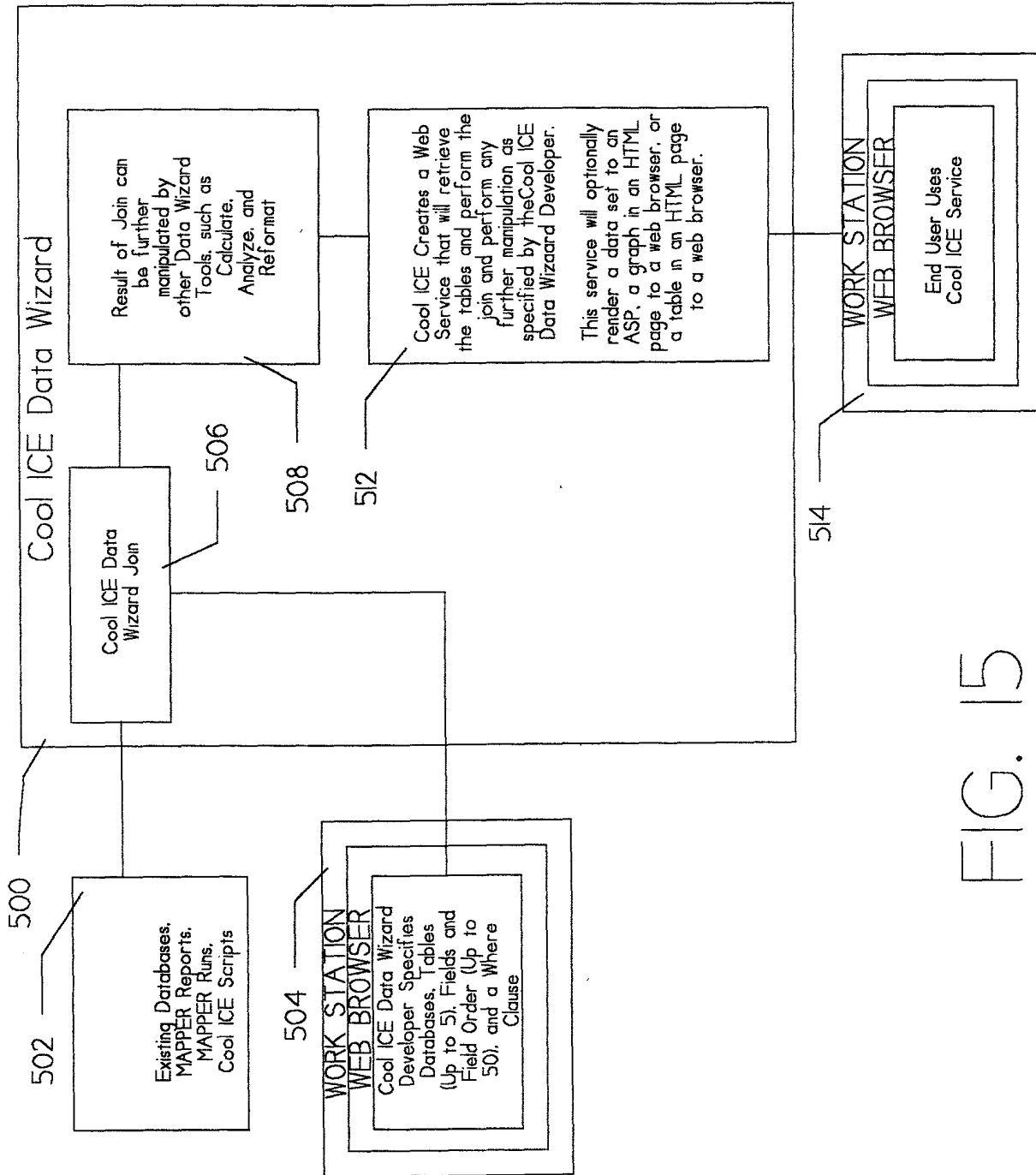


FIG. 14

FIG. 15



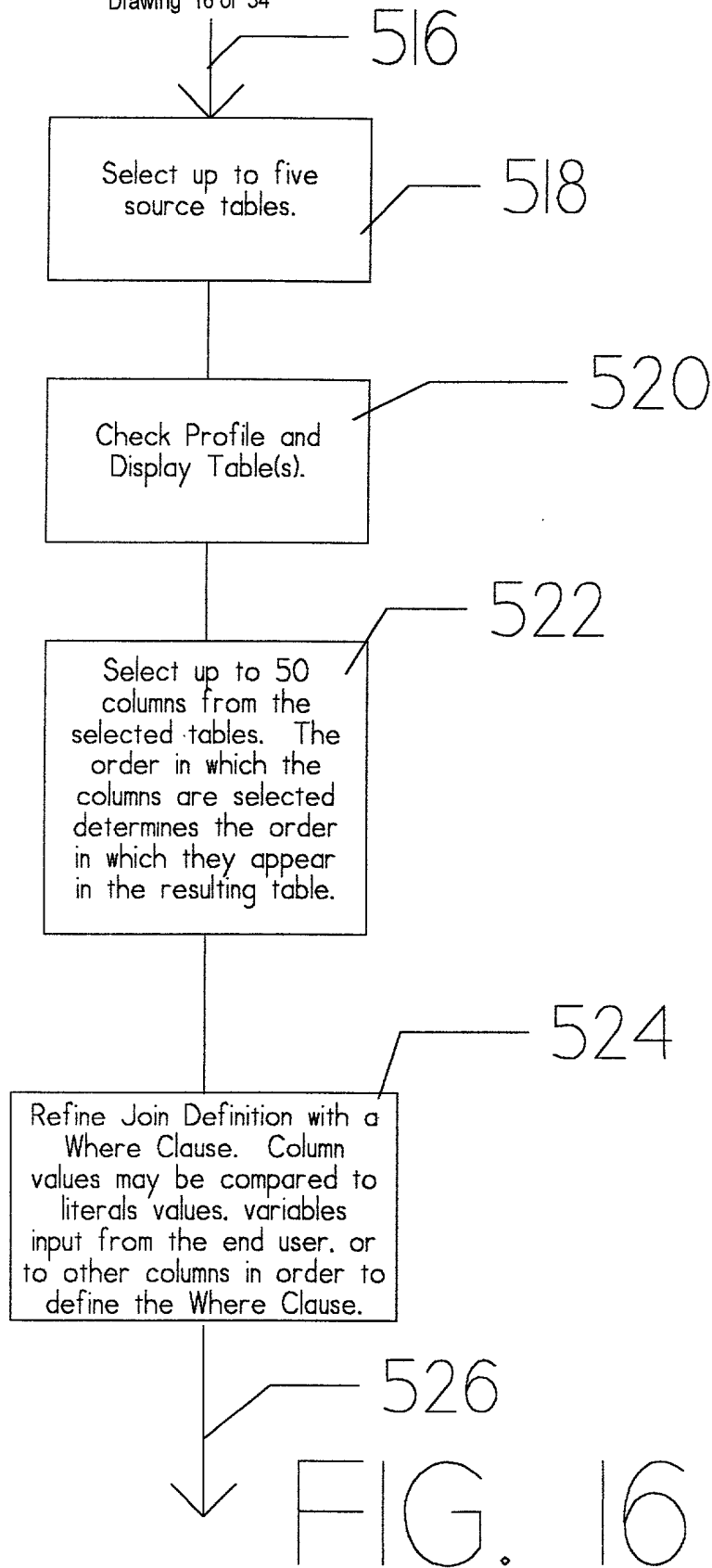


FIG. 16



FIG. 17

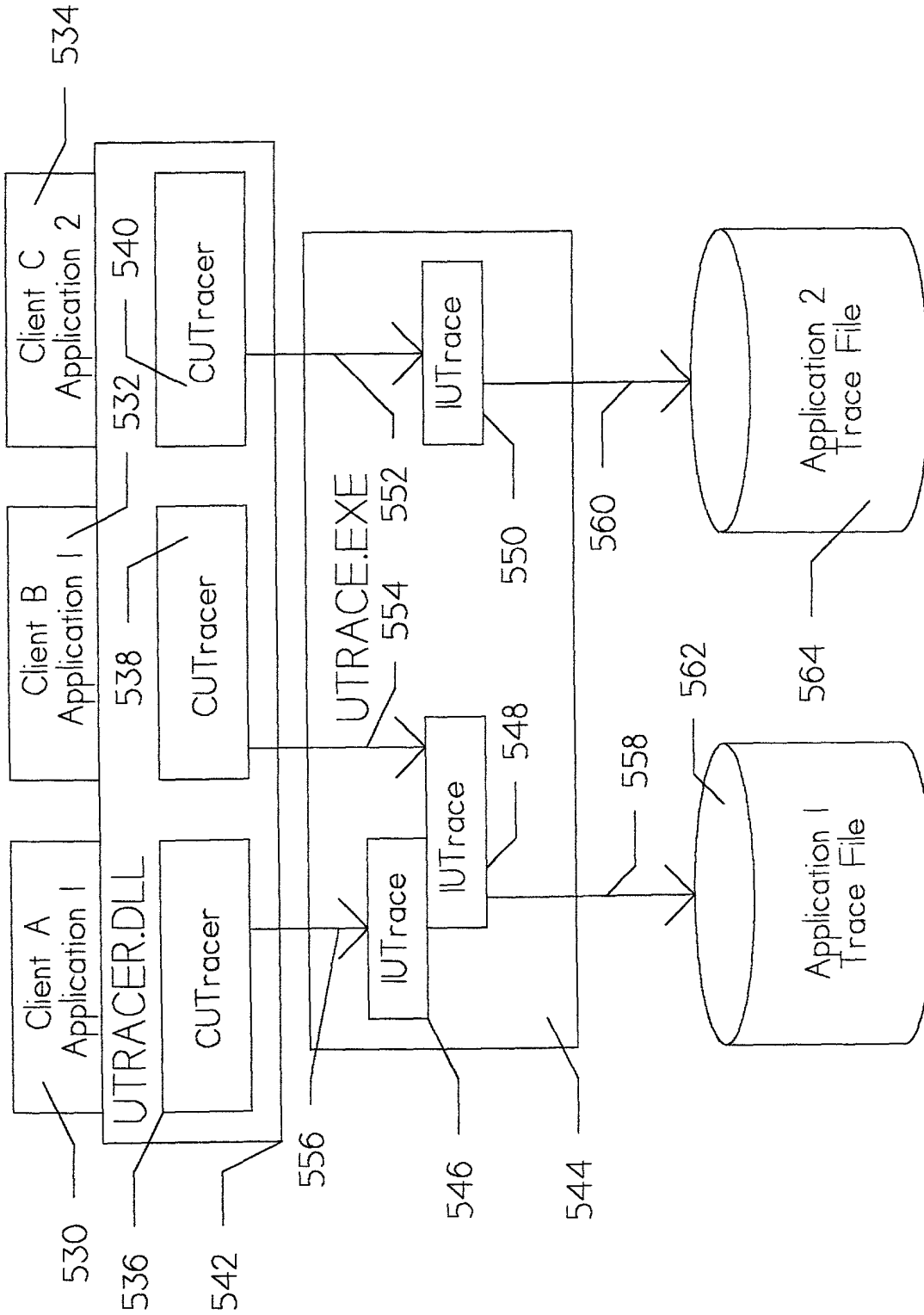


FIG. 17

# HKLM\SOFTWARE\UNISYS\UTRACE

565

APPNAME -- Subkey matching the name of the application

ENABLETRACE -- DWORD value indicating a Boolean (1=trace, 0=no trace).

MAXENTRIES -- DWORD value indicating the maximum number of entries in the trace file. If missing, then no upper limit is imposed.

FORMATFLAGS -- DWORD value indicating message formatting flags.

POLICYFLAGS -- DWORD value indicating trace policy flags set for the application.

TRACELEVEL -- DWORD value indicating a trace level. 0 = no trace.

TRACEPATH -- String value indicating the directory path for the trace files.

REGTRACE -- A string value containing the HKLM\Software sub key to trace for this application. Blank or missing for no registry trace.

COMPONENT -- A subkey for a specific component of the application.

POLICYFLAGS -- Value indicating component level trace policy flags

TRACELEVEL -- DWORD Value indicating a trace level. 0 = no trace.

VERSIONTRACE-- String value specifying executable component name for version information tracing.

FIG. 18

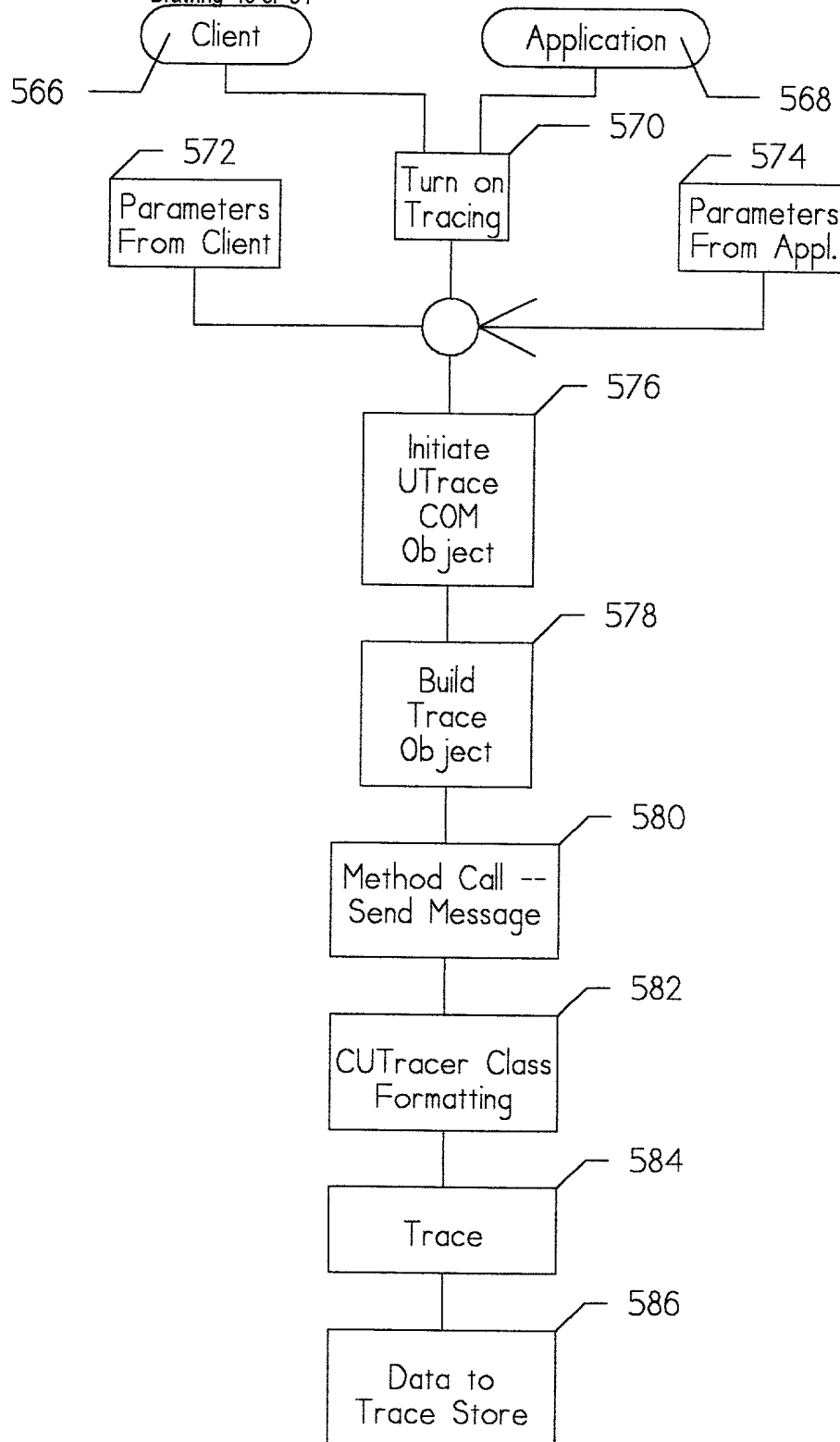


FIG. 19

1002749-122404

```
#define CL_TRACE_VERSION      0x1  
#define CL_TRACE_ERROR       0x2  
#define CL_TRACE_INTERFACE    0x4  
#define CL_TRACE_FLOW        0x8  
#define CL_TRACE_DETAIL      0x10
```

FIG. 20A

```
if (m_trace.Active(C)_TRACE_DETAIL))  
m_trace<<"MY Detailed Trace information"<<Localvariable<<traceit
```

FIG. 20B

FIG. 21

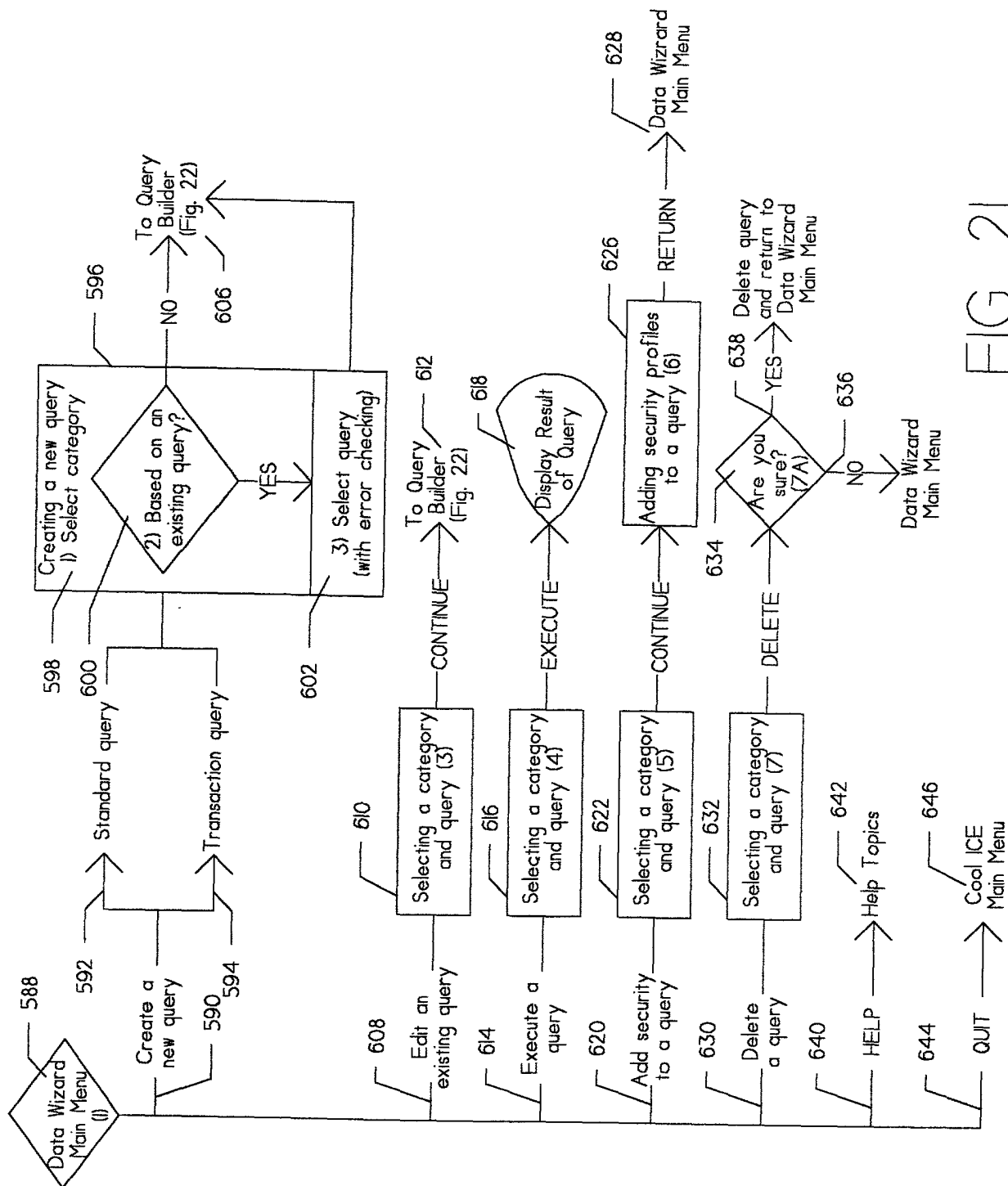


FIG. 21

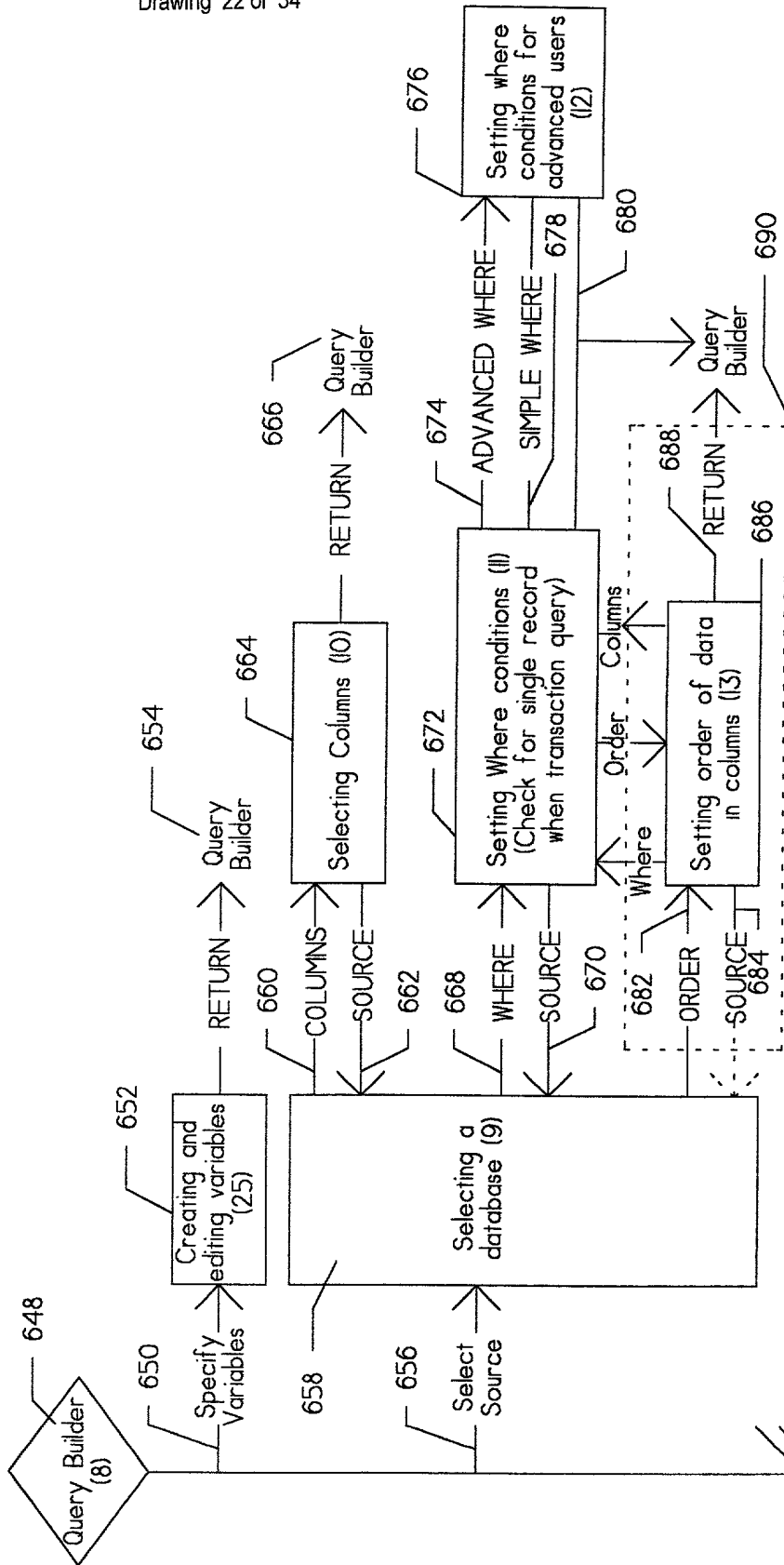


FIG. 22A

FIG. 22B

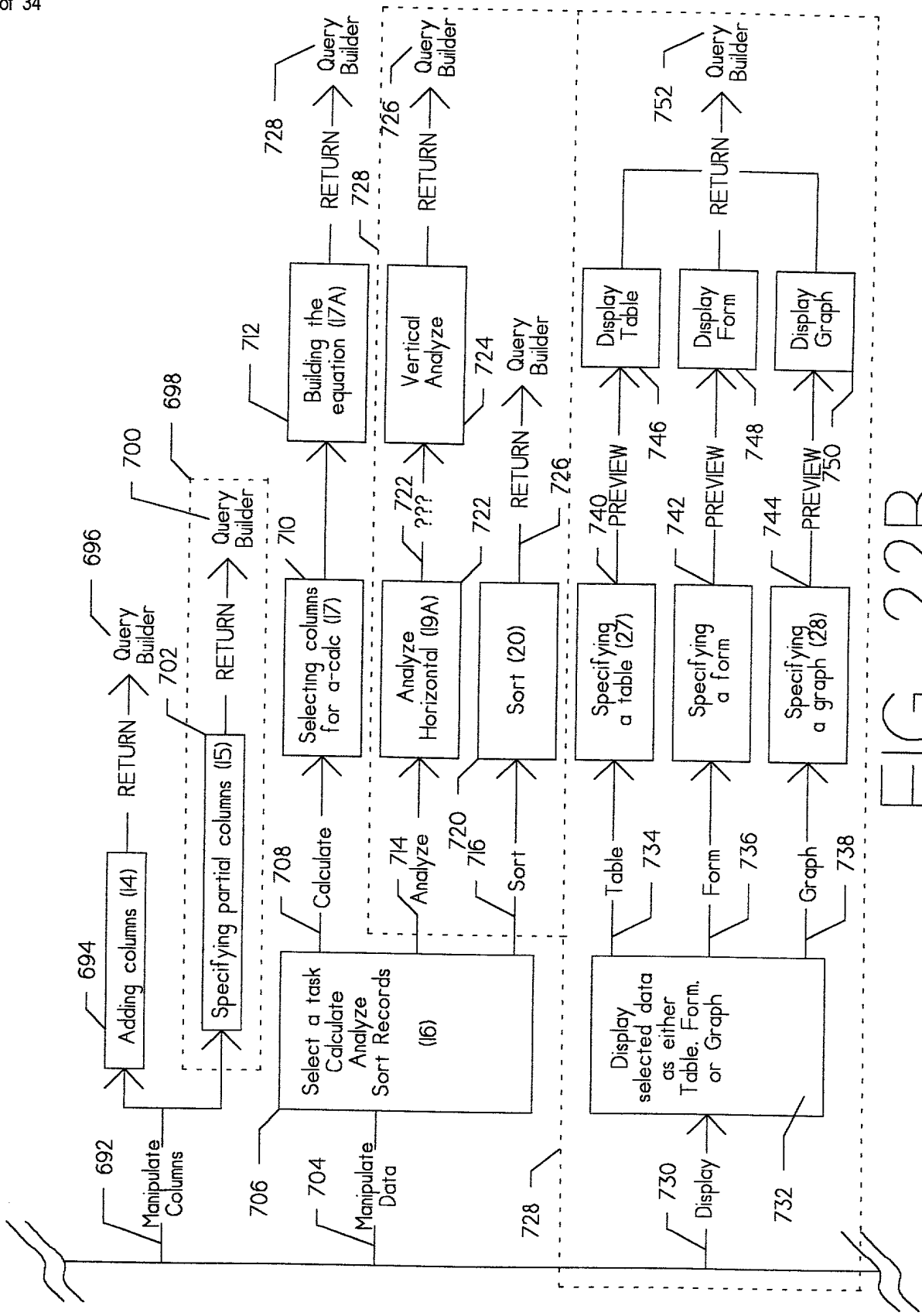
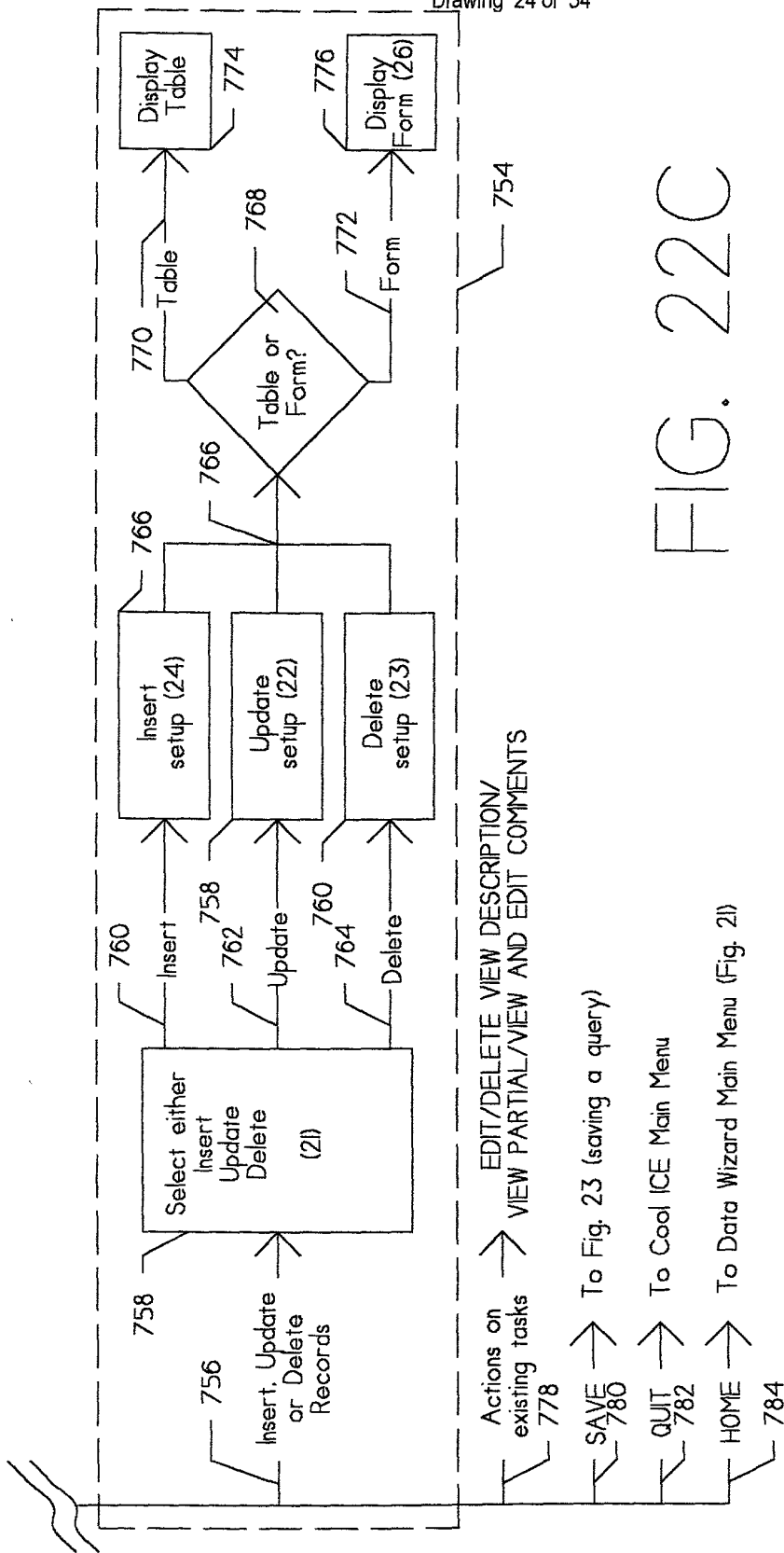


FIG. 22B



Actions on existing tasks → EDIT/DELETE VIEW DESCRIPTION/  
 VIEW PARTIAL/VIEW AND EDIT COMMENTS

SAVE → To Fig. 23 (saving a query)

QUIT → To Cool ICE Main Menu

HOME → To Data Wizard Main Menu (Fig. 21)



FIG. 23

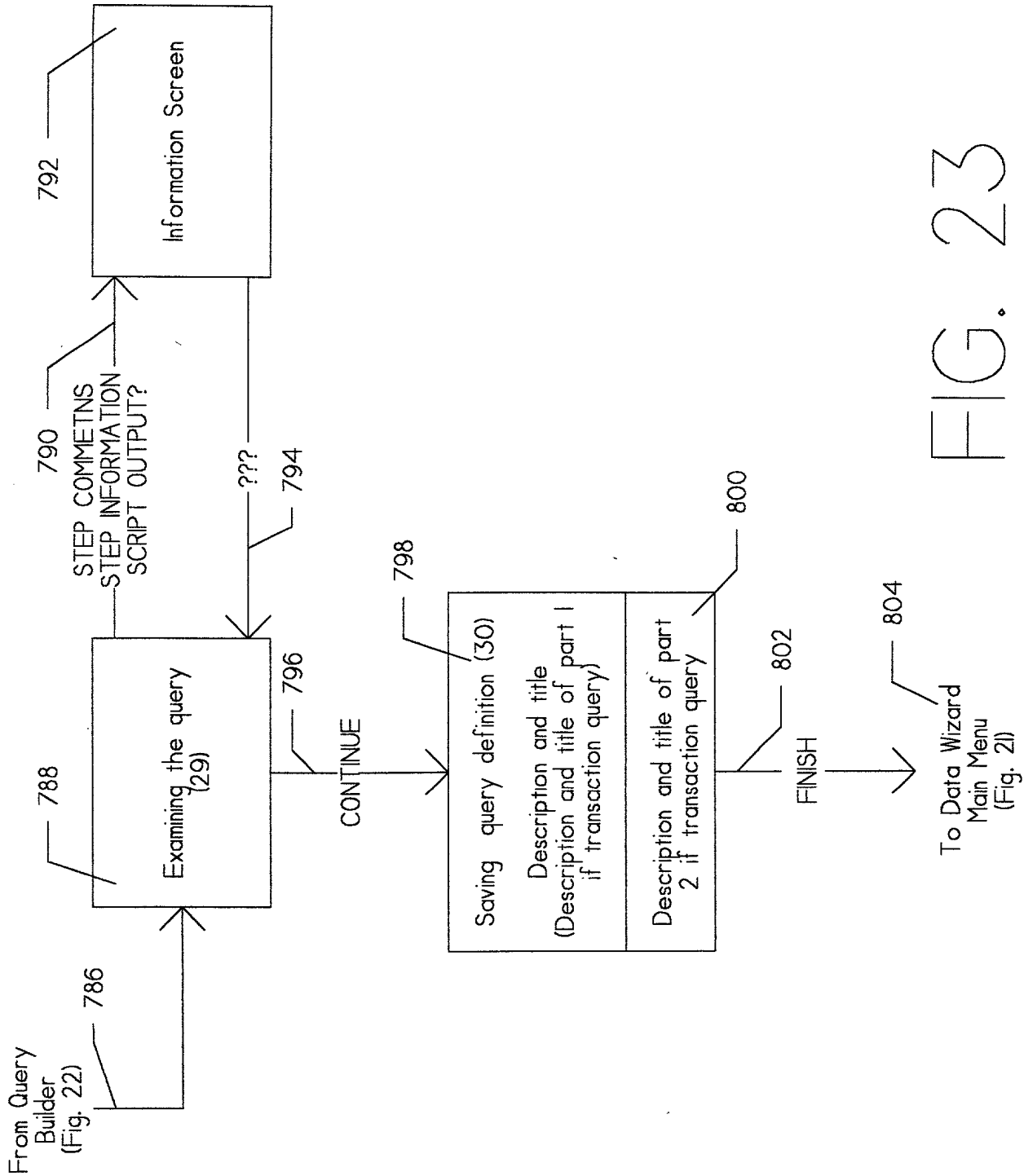


FIG. 23

FIG. 24

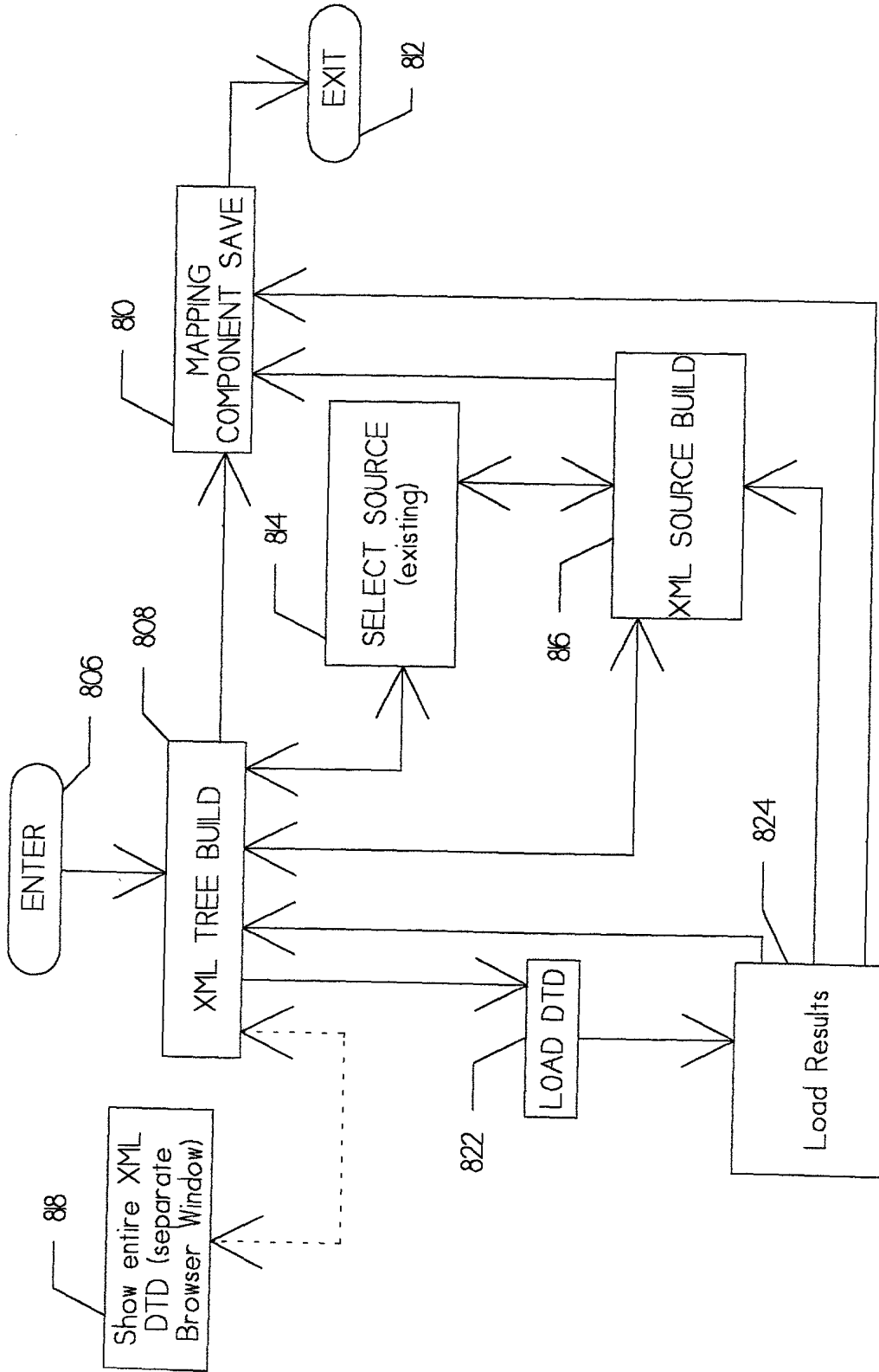


FIG. 24

XML-Mapper -- Microsoft Internet Explorer  
File Edit View Favorites Tools Help

Component Builder

Home Quit Cancel Help

XML MAPPING ELEMENTS

828 830 836 838 840 842 844 846 848 850 852 854

ELEMENTS 858

Newspaper Article Author Editor Date Edition Headline Byline Lead Body

Variables 856

Tables Article Article Author Editor Date Edition Headline Byline Lead

CONTROLS

Mapping Type Open 868 Name Conversion Capital 864

Table Mapping Complete 866

Element Properties

Item Type Sequence 860 Mapping Row Iterator 862 Value 863

872 874 876

Redisplay Sources Save

FIG. 25

826

XML -Mapper -- Microsoft Internet Explorer  
File Edit View Favorites Tools Help

Component Builder UNISYS

Home Quit Cancel Help

XML MAPPING PROPERTIES

880 830 836 838 840 842 844 846 848 850 852 854 856

ELEMENTS

Newspaper Article Author Editor Date Edition Headline Byline Lead Body Notes

858

Item Type

Sequence 882

Element Form

Required 884

Source/Destination

Complete 886

Default Value

888

890

DTD Representation

892

XML Representation

894

896

900

902

904

Return Show DTD Save Mapping

Sources

898

FIG. 26

XML -Mapper -- Microsoft Internet Explorer  
File Edit View Favorites Tools Help

Component Builder  
UNISYS

871 Home Quit Cancel Help  
XML MAPPING ELEMENTS  
872 [Redisplay] 874 [Sources] 876 [Upload DTD] 873 [Save]

ELEMENTS 858  
[Root]

o Variables 856  
o Tables

CONTROLS  
Mapping Type [Open] 868  
Table Mapping [Complete] 866  
Name Conversion [Capital] 864

Element Properties  
Item Type [Sequence] 860  
Mapping [Row Iterator] 862  
Element Form [Rqrd Rpt] 861  
Value 863

870

FIG. 27

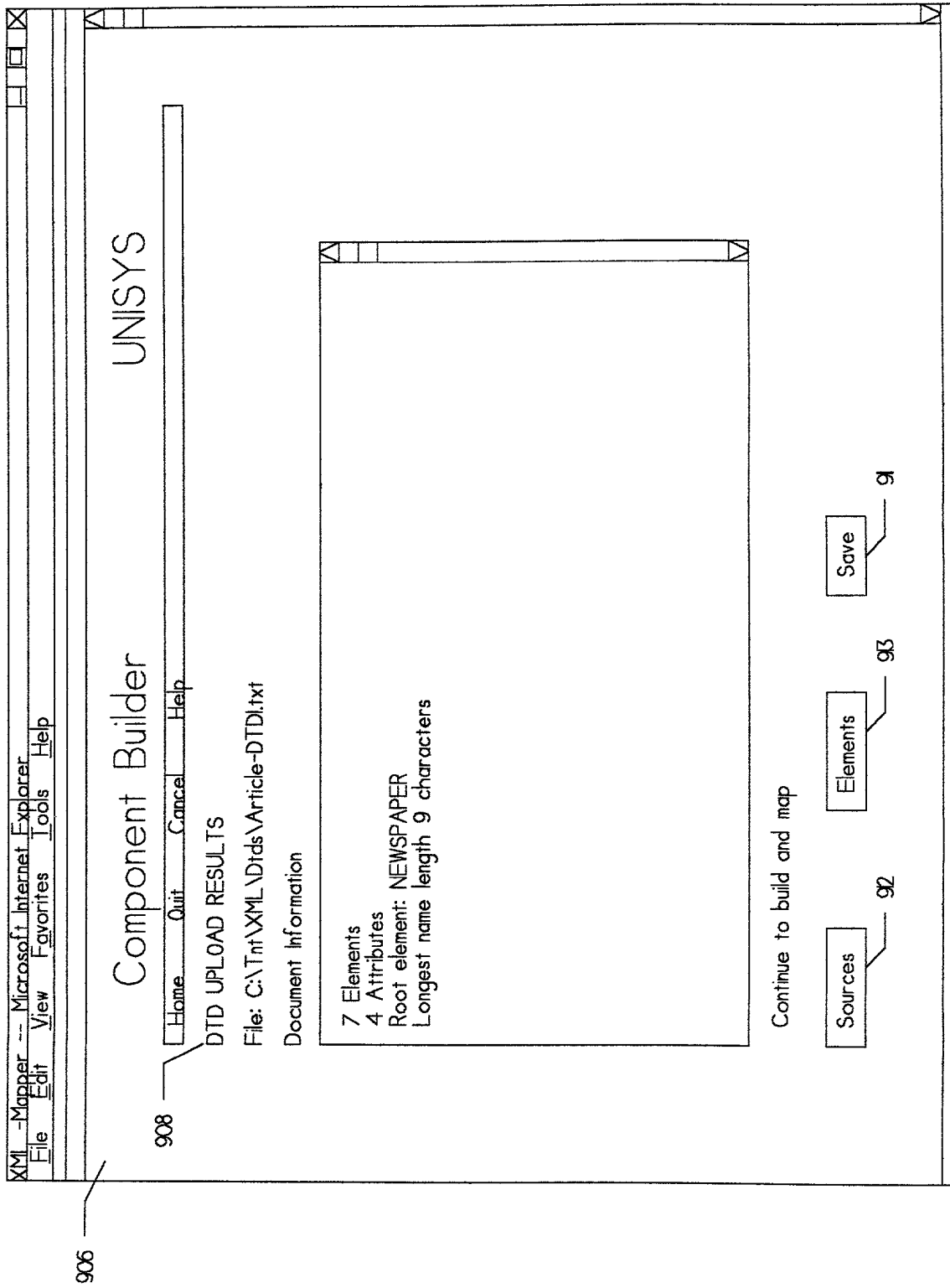


FIG. 28

— IDT EXAMPLE

Version:AC:0.0 90  
Truncation:AC:0 92  
TypeCheck:AC:0 93  
ShoeData:ED:0:R 94  
From:DE:I:R  
From:EV:Supplier:20:string  
TableType:ED:I:R  
TableType:EV:TableInfo:50:string  
Inventory:ED:I:R  
Inventory:BT:Inventory:7  
Inventory:IH:ITEMNUMBER:I0  
Inventory:IH:QTY:5  
Inventory:IH:TYPE:I0  
Inventory:IH:GENDER:6  
Inventory:IH:SIZ:3  
Inventory:IH:COLOR:3I  
Inventory:IH:UNITCOST:I3  
Date:AD:I:R  
Date:AV:Date:I0:string  
Time:AD:I:R  
Time:AV:Time:5:string  
Row:ED:2:R  
Row:BR:I  
ItemNr:ED:2:R  
ItemNr:EF:I:ITEMNUMBER:I0:R:string  
Quantity:AD:2:R  
Quantity:AF:I:QTY:5:R:string  
Type:ED:2:R  
Type:EF:I:TYPE:I0:L:string:  
Gender:ED:2:0  
Gender:EF:I:GENDER:6:L:string:UniSex  
Size:ED:2:R  
Size:EF:I:SIZ:3:L:string:  
Color:ED:3:0  
Color:EF:I:COLOR:3I:L:string:White  
Unitcost:ED:2:R  
Unitcost:EF:I:UNITCOST:I3:R:string:  
Row:EE:2  
Row:ER:a  
Inventory:EE:I  
Inventory:ET:I 96

FIG. 29

1003478-1003401

DID EXAMPLE

918

<DOCTYPE ShoeData [

```
<ELEMENT ShoeData (From, TableType, Inventory)>
<ELEMENT From (#PCDATA)>
<ELEMENT TableType (#PCDATA)>
<ELEMENT Inventory (Row+)>
<!ATTLIST Inventory Date CDATA #REQUIRED>
<!ATTLIST Inventory Time CDATA #REQUIRED>
<ELEMENT Row (ItemNr, Type, Gener?, Size, Color?, Unitcost)+>
<ELEMENT ItemNr (#PCDATA)>
<!ATTLIST ItemNr Quantity CDATA #REQUIRED>
<ELEMENT Type (#PCDATA)>
<ELEMENT Gender (#PCDATA)>
<ELEMENT Size (#PCDATA)>
<ELEMENT Color (#PCDATA)>
<ELEMENT Unitcost (#PCDATA)>
```

FIG. 30



XML INPUT DOCUMENT EXAMPLE

920  
<?xml version="1.0" encoding="ISO-8859-1"?>  
<ShoeData>  
<From>Roseville Store</From>  
<TableType>Low Inventory Count</TableType>  
<Inventory Date="2000-12-05" Time="11:51">  
<Row>  
<ItemNr Quantity="0">32335</ItemNr>  
<Type>Tennis</Type>  
<Gender>Mens</Gender>  
<Size>6</Size>  
<Color>White/Zen Grey/New Spruce</Color>  
<Unitcost>25.00</Unitcost>  
</Row>  
<Row>  
<ItemNr Quantity="0">35410</ItemNr>  
<Type>Running</Type>  
<Gender>Womens</Gender>  
<Size>5</Size>  
<Color>White/Zen Grey/Neptune Blue</Color>  
<Unitcost>19.70</Unitcost>  
</Row>  
<Row>  
<ItemNr Quantity="0">35411</ItemNr>  
<Type>Running</Type>  
<Gender>Womens</Gender>  
<Size>6</Size>  
<Color>White/Zen Grey/Neptune Blue</Color>  
<Unitcost>19.70</Unitcost>  
</Row>  
<Row>  
<ItemNr Quantity="2">35420</ItemNr>  
<Type>Running</Type>  
<Gender>Womens</Gender>  
<Size>5</Size>  
<Color>White/Chlorine Blue/Hot Lime</Color>  
<Unitcost>19.70</Unitcost>  
</Row>  
<Row>  
<ItemNr Quantity="1">37421</ItemNr>  
<Type>Golf</Type>  
<Gender>Womens</Gender>  
<Size>8</Size>  
<Color>White/Fluorescent Pink</Color>  
<Unitcost>35.00</Unitcost>  
</Row>  
</Inventory>  
</ShoeData>  
<Color>White/Black-Hot Lime, Neo Teal</Color>  
<Unitcost>40.00</Unitcost>  
</Row>  
<Row>  
<ItemNr Quantity="0">32474</ItemNr>  
<Type>Tennis</Type>  
<Gender>Womens</Gender>  
<Size>8</Size>  
<Color>White/Light Marine-Ultramarine</Color>  
<Unitcost>25.00</Unitcost>  
</Row>  
<Row>  
<ItemNr Quantity="1">35310</ItemNr>  
<Type>Running</Type>  
<Gender>Mens</Gender>  
<Size>6</Size>

FIG. 31

400746-100010

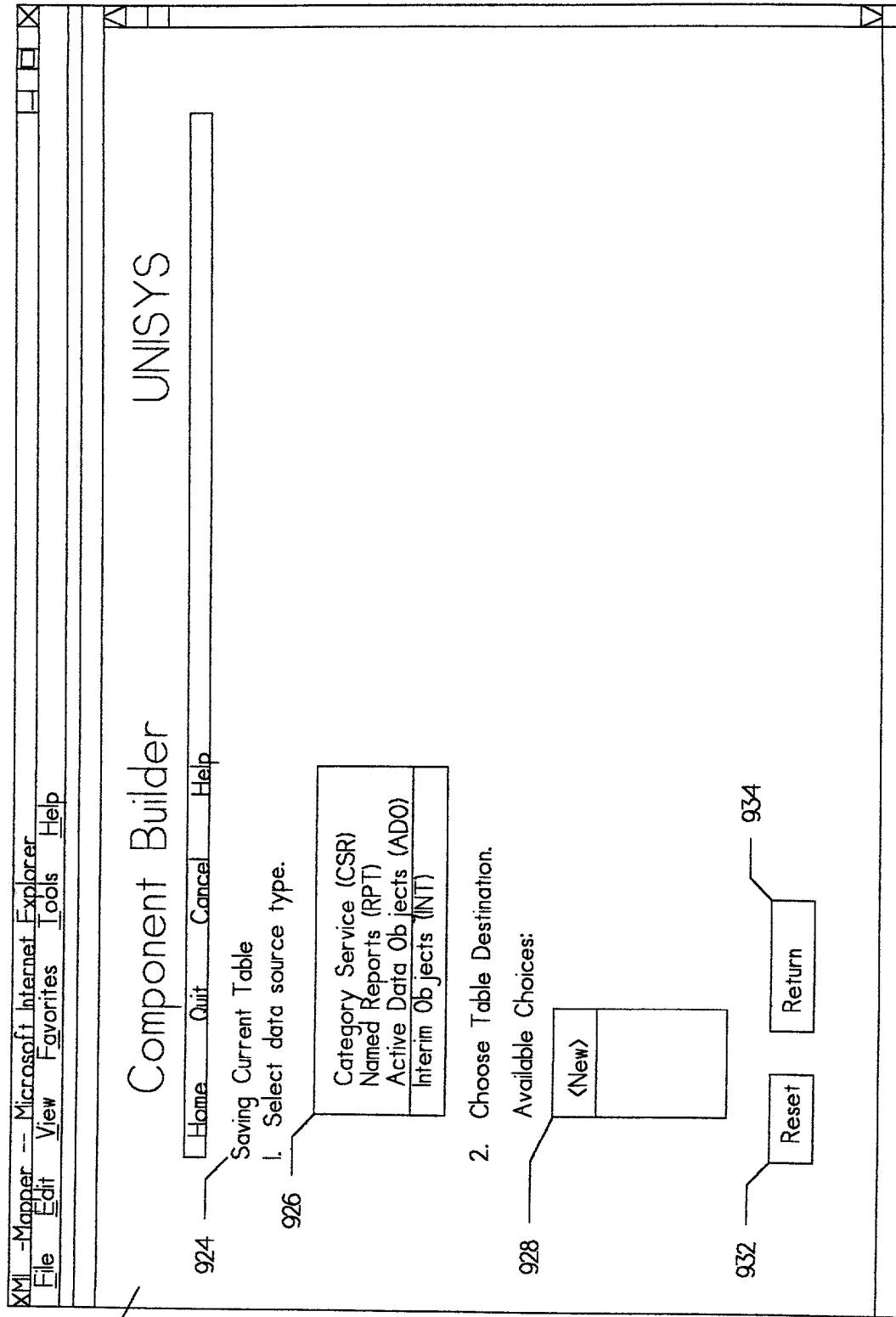


FIG. 32